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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,043	12/29/2003	Su Hwan Oh	5882P072	9224
8791 759	10/06/2005		EXAMINER	
BLAKELY SOKOLOFF TAYLOR & ZAFMAN			RODRIGUEZ, ARMANDO	
	RE BOULEVARD		ART UNIT	PAPER NUMBER
SEVENTH FLO	G, CA 90025-1030		2828	

DATE MAILED: 10/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
		10/749,043	OH ET AL.	
	Office Action Summary	Examiner	Art Unit	
		ARMANDO RODRIGUEZ	2828	
Period fo	The MAILING DATE of this communication a or Reply	appears on the cover sheet with the	correspondence address	S
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory perior re to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be ti od will apply and will expire SIX (6) MONTHS fron tute, cause the application to become ABANDONE	N. mely filed n the mailing date of this commun ED (35 U.S.C. § 133).	
Status				
2a)□	Responsive to communication(s) filed on This action is FINAL . 2b) The Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters, pr		rits is
Dispositi	on of Claims			
5)□ 6)⊠ 7)□ 8)□ Applicati 9)□	Claim(s) 1-8 is/are pending in the application 4a) Of the above claim(s) is/are withded claim(s) is/are allowed. Claim(s) 1-8 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and son Papers The specification is objected to by the Examination The drawing(s) filed on is/are: a) are applicant may not request that any objection to the specific and some persection of the drawing of the specific and some pending is/are: a) are applicant may not request that any objection to the specific and some pending in the application is above the specific and some pending in the application is above the specific at the specif	rawn from consideration. I/or election requirement. ner. ccepted or b) □ objected to by the		
	Replacement drawing sheet(s) including the corre	· · · · · · · · · · · · · · · · · · ·		7 7
11)	The oath or declaration is objected to by the	Examiner. Note the attached Office	Action or form PTO-15	52.
Priority u	ınder 35 U.S.C. § 119			
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure see the attached detailed Office action for a life.	ents have been received. ents have been received in Applicat riority documents have been receive eau (PCT Rule 17.2(a)).	ion No ed in this National Stag	e
	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4)	ate	
3) 🔯 Inforr	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date <u>12-29-2003</u> .	5) Notice of Informal F	Patent Application (PTO-152)	

DETAILED ACTION

Information Disclosure Statement

The information disclosure statement filed December 29, 2003 fails to comply with 37 CFR 1.98(a)(3) because it does not include a concise explanation of the relevance, as it is presently understood by the individual designated in 37 CFR 1.56(c) most knowledgeable about the content of the information, of each patent listed that is not in the English language. It has been placed in the application file, but the information referred to therein has not been considered.

The Japanese reference 11-340566 has not been considered.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 1 and 6,

Applicant has failed to define SG-DFB and SG-DBR within the claim language.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sartorius et al (US 6,215,805) in view of Weber (US 5,379,318).

Regarding claims 1,4 and 6

Sartorius et al illustrates in figure 2 a laser section (L) including a grating (4), a active layer (3) [applicant's gain] and a passive resonator (P) [applicant's phase control], where the combination of the laser section (L) and the passive resonator (P) forms a DFB laser [applicant's SG-DFB], the figure also illustrates a reflector (R) [applicant's SG-DBR], column 6 lines 18-21 discloses the DFB laser combined with a DFB or DBR reflector. Column 5 lines 36-38 disclose the resonator (R) and laser section (L) being limited by antireflection facets [applicant's non-reflection film]. Column 2 lines 1-15

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disclose tuning the refractive index for wavelength selection [applicant's wavelength is tuned] and also disclose the reflector having a strong dispersive characteristic, which implies a difference in period between the grating of the laser section and the reflector.

Sartorius et al discloses in column 2 lines 3-8 providing different mode combs but is silent as to the gratings being sampled gratings (SG).

Weber teaches in column 1 lines 51-56 the sampled gratings generating two combs.

Therefore, it would have obvious to a person of ordinary skill in the art at the time of the invention to combine the sampled gratings as suggested by Weber with the laser device of Sartorius et al because it generate different mode combs.

Regarding claim 2, 7

In column 3 lines 22-27 Sartorius et al discloses the DFB or DBR grid as homogenous, which implies the same structure [applicant's same pitches].

Regarding claim 3,

In column 2 lines 1-15 Sartorius et al discloses tuning the refractive index for wavelength selection, which accomplished by use of the electrodes E1 and E2 as illustrated in figure 2.

Regarding claim 5,

In column 2 lines 64-67 Sartorius et al discloses modulation is provided by the passive resonator or the reflector [applicant's modulator].

Regarding claim 8,

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In column 5 lines 22-30 Sartorius et al discloses the material of the layers, the substrat3 (1) and layer (5) [applicant's cladding layer] are made of InP and the waveguides are made of InGaAsP.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ARMANDO RODRIGUEZ whose telephone number is 571-272-1952. The examiner can normally be reached on 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MINSUN HARVEY can be reached on 571-272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ARMANDO RODRIGUEZ

Examiner
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